

## ABSTRACT

5 A plurality of electrical storage devices such as batteries capable of alternately  
storing and discharging electricity are connected to the power grid within existing rights  
of way. The electrical storage devices are batteries that may be alternately charged  
during periods of low power consumption and discharged during periods of high power  
consumption. In this manner, the power generating facilities can be operated at constant,  
or near constant generation, thereby optimizing the efficiency and productivity of the  
10 power generation. Significant amounts of power can then be stored within these batteries  
throughout the grid, thereby allowing the grid to meet peak loads by discharging the  
stored power during periods of high demand. Additionally, the placement of these  
batteries within existing rights of way allow the existing grid to be retrofitted to deliver  
more power without the need for costly and time consuming negotiations for new rights  
15 of way.